MYASNIKOV, Yu.A. (Moskva); CHARNYY, I.A. (Moskva)

Approximate method for calculating gas injection into a water-bearing layer through a straight line of wells. Izv.AN SSR.-Otd.tekh.nauk.Mekh.i mashinostr. no.4:47-51 Jl-Ag '62.

(Gas wells)

(Gas wells)

ROCHINA, I.N., MYASNIKOV, Yu.A.

Calculation of pressure in pusping fluid to a stratum through a retilinear gallery. Izv./yo.unieb.zav.; neft! i gaz i nill...

(MIRA 17.4)

1. Moskovskiy institut neftekhimicheskey i gazovoy promyshlennosti imeni akademika I.M.Gubkina.

ACC NR: AP7004698 (A,N) SOURCE CODE: UR/0016/66/000/008/0012/0017

AUTHOR: Vishnyakov, S. V.; Myasnikov, Yu. A.; Panina, T. V.; Zhukova, L.D.

ORG: Central Disinfection Institute (Tsentral'nyy dezinfektsionnyy institut); Tula Oblast Sanitary-Epidemiological Station (Tul'skaya oblastnaya sanitarno-epidemiologicheskaya stantsiya)

TITLE: Devising a rodent control system for forest foci of renal hemorrhagic fever

SOURCE: Zh mikrobiol, epidemiol i immunobiol, no. 8, 1966, 12-17

TOPIC TAGS: human ailment, renal hommorhagic fover, poison effect, pest control, disease vector, rodent, HEMORRHAGE, DIRESTILE SYSTEM, DISEASE, DISEASE CONTROL

ABSTRACT: Renal hemorrhagic fever in a forest focus was successfully controlled by poisoning the rats which are vectors of indisease. Two kg/ha of grain poisoned with zinc phosphide were applied by plane along poisoned zone 30 m wide separated by nonpoisoned zones 50-100 m wide. Hear settled areas, bait containers with an open end were buried in the soil and placed 10-20 m apart. Poisoned bait and traps were used within buildings, usually during the winter. The poisoned zones around villages were especially effective in preventing the

Cord 1/2 UDC: 616.61-002.151-022.6-084.449.932.34

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SUB CODE:	06/ SUBM	DATE: 7Jun65	/ ORIG REF:	004	[LP] [WA-50]
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ard 2/2					

YEMEL'YANOVA, O.S.; HAVDONIKAS, O.V.; YEGOROVA, L.S.; PANINA, N.V.;
PILIPENKO, V.G.; RUDNFV, M.M.; SIL'CHENKO, V.S.; BESSONOVA, M.A.;
UL'YANOVA, N.I.; VFDENEYEVA, Ye.V.; BORODIN, V.P.; SAMSONOVA, A.P.;
MYASNIKOV, Yu.A.; LEVACHEVA, Z.A.

Approbation of an improved tularemia diagnosticum. Zhur.
mikroobiol., epid. i immun. 40 no.10:85-92 0 '63.

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamaley
AMN SSSR, Omskogo instituta prirodnocchagovykh infektsiy,
Protivochumnogo instituta Kavkaza i Zakavkaz'ya, Voronezhskoy,
Leningradskoy, Volgogradskoy, Tul'skoy sanitarno-epidemiologicheskikh
stantsiy.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135820003-8"

18(7) AUTHORS Myasrik .. Yw. J., Terminasty, Yu. S. | Siv. 163-58-4-75 47 TITLE. X-ray Investigation of Structural Distortions of Steel When Clearing With 5 Blast of Metal Shit (Rentgenograficheskoye isslede carige iskatheniy struktury stali pri drobestruynoy PERIODICAL: Nationally taking vysshey shkely. Metallurgiya, 1958, Nr 4, ABSTRACT: This intestigation concerned the influence of a surface treathers with metal about (corap 2) in the state of the atomic orystal lattice of metals of great hardness. All effects were separatel are raing to the method by G. V. Kurdyumov and L. I. Lysak (Refs 7, 4, 4), as well as the method of harmonic aralysis (Refs 5, 6). The fillowing facts were ascertained by the experiments () In hardened samples of steel 45 KhNMFA which had seen tempered at 4000 and subjected to cleaning with a tlast of metal shot, no increase in orystalline distortions was assenteined at an increase in the operating time. 2) The methods of harmoric analysis and the methods developed by Karlyumer - Lysak used for determining the crystal block Card 1,2

X-- ay Investigation of Structural Distortions of SOV/163-16-4-35/47

Steel What Oldering With a Blast of Metal Sold

Tessurements showed that the size of blooks first decreases with one increase in preading time, but then stabilizes.

Jose themetical values of the lattice distortions (crystalline methods independent of each other. They are approximately equal of the hasses. There are a figures, 2 tables, and 6 references,

ASSOCIATION: Latting adam's gouldard ventury pedagogicheskiy institut (businged State Pedagogic Institute)

SUBMITTED: Latting of the content of the

18(3), 18(7)	5∀, 1610-1-3∑°
AUTHORS:	Myasnikov, Yu. G., Terminasov, Yu. S.
TITLE:	X-Ray Structural Analysis of the Surface State of High-hardness Steels Subjected to Shot Peening (Rentgenografic askeye issledovaniye sustoyaniya pavorkharati ataley vysclay tverdosti pri drobestruynoy obrabetke)
PERIODICAL:	Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 1, pp 154 - 159 (USSR)
ABUTHACT:	This is an investigation of the effects of a dissortinuous shot peening upon the origine structure of samples of 45KhNMFA and 60S2A steel. The samples were quenced in oil after having been kept at the Cardening temperature for 10 minutes. The hardness of the samples after this coat treatment was 46-48 R _c (mockwell C grale). This investigation was primarily directed towards a study of the december of the
Card 1/3	primarily directed towards a stray of the reface layers distortions of the crystal lattice of the reface layers and of the grain sizes in these layers upon a certain generalized parameter which was terred "lensity of that

X-Ray Structural Analysis of the Surface State of High- S.Y/169-19-1-29/Schardness Steels Subjected to Shot Peening

peening" (Ref 5). This quantity represents the am unt of shot striking unit surface of the sample during the consolidation period. The duration of treatment was chosen to be the variable factor in this investigation. The shot used was of 1 mm size, and it was thrown against the strace at a constant velocity of 81 m/sec, the duration of treatment varied from 1 - 7.5 minutes. The X-ray structural analysis was carried out on the URS-50I ionization apparatus. The interference lines (110) and (220) for three samples of each type of steel the X-ray diagrams of which were exactly identical, were analyzed. On the basis of the information gained the foll-wing can be stated: The distortions of the crystal lattice which are due to the heat treatment of steel 45KhkMFA are independently of the uration not modified by the shot peening treatment. The breadening of the interference lines is only ascribed to the reduction of the grain sizes. In steel 60S2A the lattice distortions during the first two minutes of treatment were found to proceed in correspondence with the reduction of grain site. Hence the process of crys'al atructure distortion may

Card 2/3

X-Ray Structural Analysis of the Surface State of High- SUV/163-19-1-00/50 hardness Steels Subjected to Shot Peening

proceed along different lines, what depends upon the chemical composition of the sheel and its thermal treatment. The difference detect domay be investigated by means of the harmonic analysis. There are 3 figures, 1 tables, and 6

references, 4 of which are Joviet.

ASSCCIATION: Leningradskiy pedagogicleskiy institut (Leningrad Poda-

gogical Institute)

SUBMITTED: January 21, 1958

Card 3/3

3/137/60/000/011/031/043 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 11, p. 242, # 27174

AUTHORS:

Myasnikov, Yu.G., Terminasov, Yu.S.

TITLE:

Investigation of Shotblast Cold Hardening of Steel by the Roentgeno-

PERIODICAL:

Tr. Leningr. inzh.-ekon. in-ta, 1959, No. 28, pp. 105 - 112

TEXT: An investigation was made with 60 (2Å (60S2A) and 45 $\chi = MODA$ (45KhNMPA) steel. The method of Fourier's series and the analytical method were used to separate the effects of II order (fragmentation of domains and microdistortions of the lattice). It was established that in shotblast working microstresses increased in the surface layer when the shotblast time was extended. Etchingoff surface strengthened layers revealed in a depth of 250 μ the presence of a layer where the magnitudes of microdistortions were by 25% less than on the sur-

Card 1/2

8/137/60/000/011/031/043 A006/A001

Investigation of Shotblast Cold Hardening of Steel by the Roentgenographical Method

face in the initial state; this is explained by partial annealing on account of heat liberated during shotblast treatment. It is established that the density of dislocations in the cold hardened layer is 3.10^{11} cm⁻². This is the lowest possible limit of its magnitude. There are 11 references.

I.K.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

MYaSNIKOV, Yu. G., Cand Phys-Math Sci — (diss) "Roentgenographic Investigation of Deformations of the Tystalline Structure of Steel Alloys During Fractional Flow Working, "Kiev, 1960, 14 pp, 200 copies (Kiev State U im T. G. Sheveherko) (KL, 46/60, 123)

S/123/62/000/013/009/021 A004/A101

AUTHOR: Myasnikov, Yu. G.

TITLE: X-ray diffraction studies of shot-blast workhardening

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1962, 29, abstract 13B176 (In collection: "Kachestvo poverkhnosti detaley mashin.

v. 5". Moscow, AS USSR, 1961, 256 - 259)

TEXT: The investigations were carried out with cylindrical specimens of the steel grades 60 C 2 A (60S2A) and 45 XHMΦA (45KhNMFA), subjected to heat treatment to a hardness of HRC 46 - 48 and subsequent surface hardening by metal shot of 0.9 - 1.0 mm in diameter. To determine the degree and nature of plastic deformation, the author investigated the effect of metal-shot treatment on the development of microdistortions and lumping in the surface layers, the distribution of microdistortions and the dimensions of crystal blocks from the surface into the depth. It was found that, after shot working, more microdistortions appeared in the steel in comparison with the initial state: in the 60S2A grade steel some 75% more, in the 45KhNMFA grade steel 18 - 20% more. At all investigated speeds, microdistortions in the 60S2A grade steel discontinued to change

Card 1/2

S/123/62/000/013/009/021 A004/A101

X-ray diffraction studies of shot-blast workhardening

er 1 - 1.5 minutes working. The growth of microdistortions ceases after - 2 min (from the beginning of working) at any working speed. That proves the shot speed affects the development of microdistortions to a greater extent than the duration of machining. The depth of the workhardened layer depends on the machining duration and in a considerably less degree on the working speed. The author presents a diagram of the development of microstresses and lumping in materials subjected to workhardening. It is pointed out that this diagram is correct only in the case of great deformation stresses and a high degree of resistivity of the material to plastic deformation. There are 4 figures.

E. Spivak

[Abstracter's note: Complete translation]

Card 2/2

SONIN, S.D., prof.; CHERNYAK, I.L., kand. tekhn. nauk; MYASNIKOV, Yw.G., inzh.

Control of ground swe'ling by means of underground explosion charges. Ugol' 38 no.12:38-39 '63.

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

MYASNIKOV, Z.M., inzh.

Ways of improving the operations of the tank car wash-andsteaming stations. Zhel.dor.transp. 44 no.8:44-49 Ag '62.

(MIRA 15:8)

1. Glavnyy konstruktor Khar'kovskogo proyektno-izyskatel'skogo
instituta.

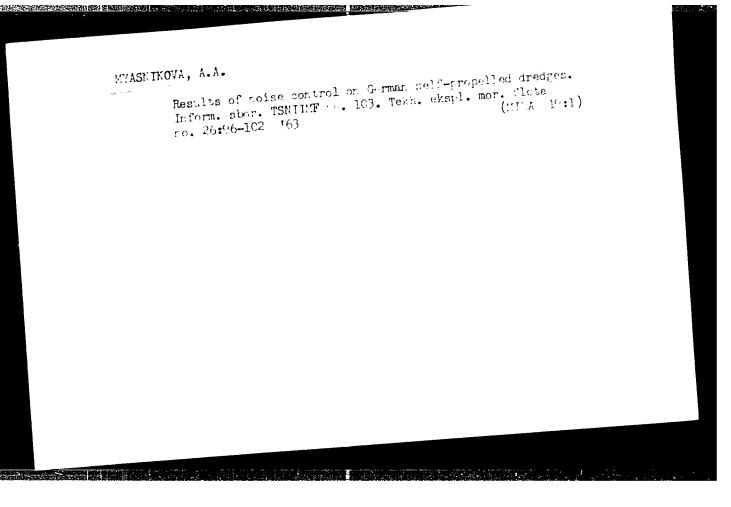
(Tank cars-Cleaning)

MYASNIKOV, Z.M., inzh. (Khar'kov); KOROTKOV, V.N., inzh. (Khar'kov)

Ways of improving the preparation of cars for grain transportation.

Zhel.dor.transp. 44 no.9:87-89 S '62. (MIRA 15:19)

(Railroads—Freight cars) (Grain—Transportation)

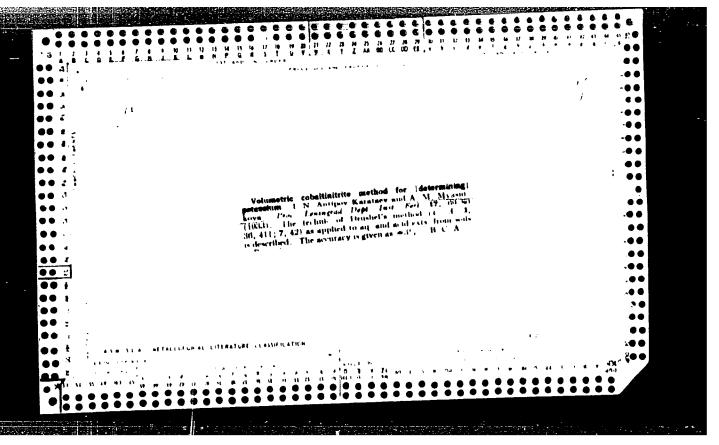


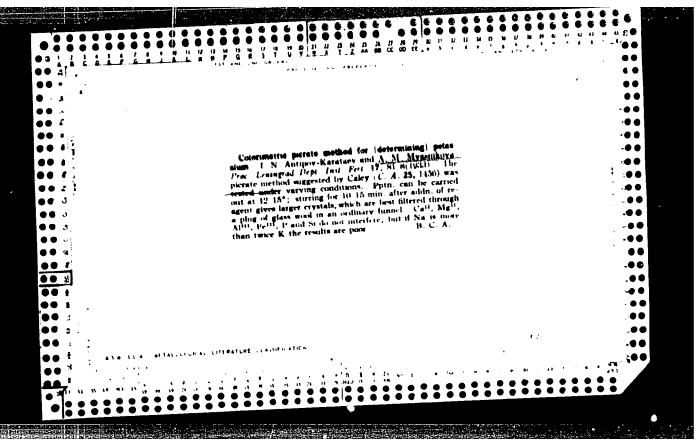
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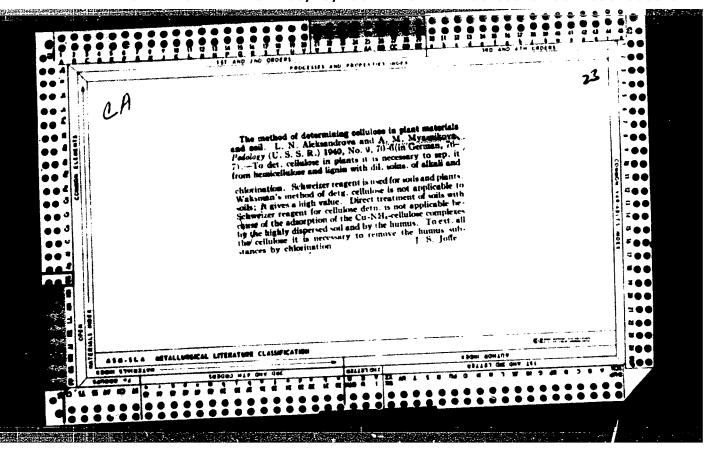
MYASNIKOVA, A.C.

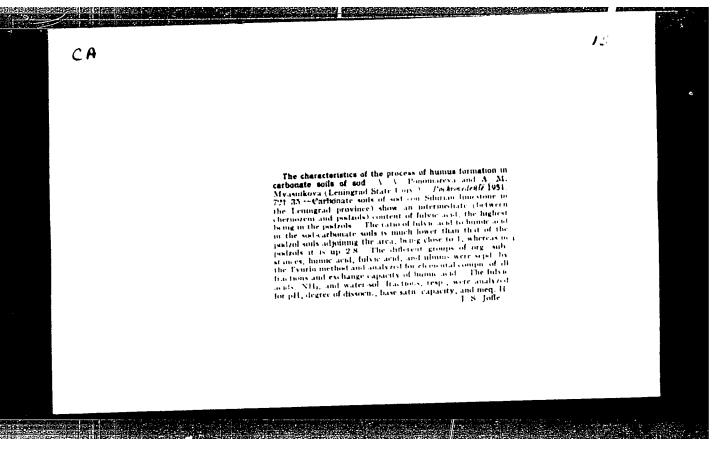
Immediate and late results of splenectomy in Werlhof's disease. Probl.gemat.i perel.krovi 5 no.1:35-36 Ja '60. (MIRA 14:6 (MIRA 14:6)

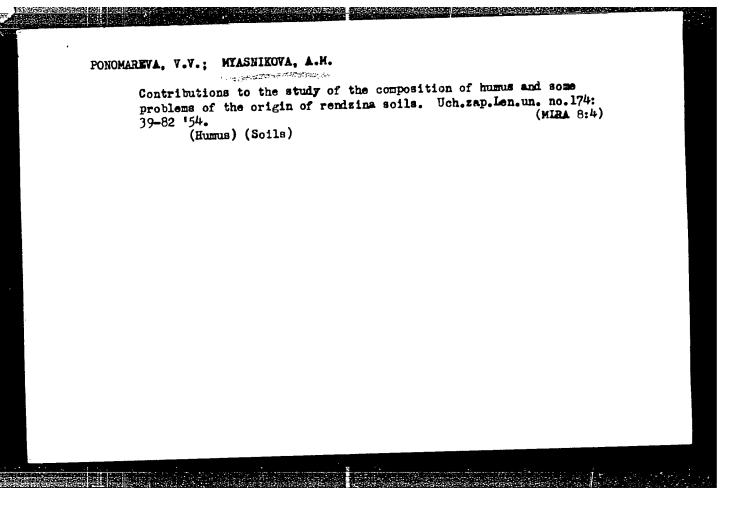
1. Iz kliniki gospital'noy khirurgii (zav. - chlen-korrespondent AMN SSSR prof. A.T.Lidskiy) Sverdlovskogo meditsinskogo instituta. (SPLEEN_SURGERY) (PURPURA (PATHOLOGY))

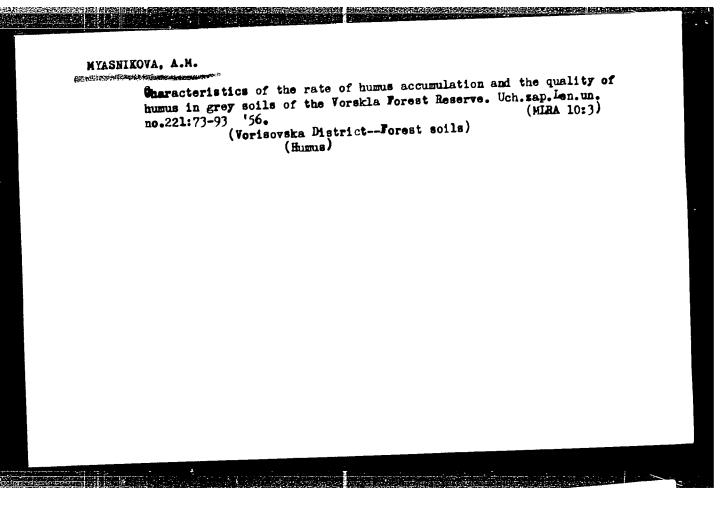












J-2 USSR / Soil Science. Genesis and Geography of Soils. : Ref. Zhur - Biologiya, No 17, 1958, No. 77375

Abs Jour : Ponomareva, V. V.; Myasnikova, A. M.

: Contral Miseum of Soil Science, IS USSR : Matorials for the Study of Soils of the Contral Part of Author Inst

tho Karolian Isthmus Title

: Sb. rabot Tsontr. muzeya pochwoved. AN SSSR, 1957, vyp. 2, Orig Pub

113-144

: Turf-latent-podzolic and alluvial-humus-ironstone soils, which the authors place with the northern variant of brown Abstract

forest soils, are widespread in the Karelian Isthmis. The physical-chemical proporties of the soils are examined. In the 0-100 cm layer of the brown forest soils, there is contained 232 t/he of humus and 9.7 t/ha of N. A deep humus profile is formed by the moving forms of the humus compounds - by fulvicacids, the prodominance of which over

card 1/3

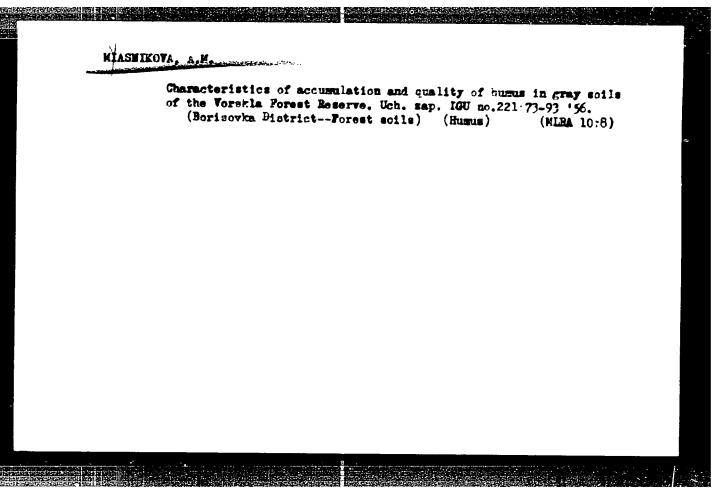
USSR / Soil Science. Genesis and Goography of Soils.

J-2

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 77375

under mixed forests, turf-podzolic-gloy and gleyey soils are mot. The slow movement of soil solutions in these soils conditions the development of processes of podzolic formation and gloy. In the 0-20 cm layer, there is concentrated up to 80% of the humas reserves - 140 t/ha. The turf-podzolic-gloy soils are characterized by the linking of processes of removal of ulmic acids connected with Fe and of fulvicacids connected with Al. According to the reserve of nutrients, Ca, and humas, these soils belong among the best in the region investigated leamy and sandy soils on the binomial alluvials of lake terraces are of intermediate agricultural value. -- S. A. Nikitin.

Card 3/3



ΥE	RMAN, B. A.; ESSEL', A. Ye.; BRONITSKAYA, Ye. Yu.; SHUBINA, S. B.; MYASNIKOVA, A. T.
	"Tsitofotometricheskoye opredeleniye soderznaniya rnx v kletkakh her-ty darabbahlykh rnk-soderzhashehim virusom."
	report presented at Symp on Virus Diseases, Mossow, 8-9 Cct (4.
	Institut virusnykh infektsiy, Sverdlovsk.

YERMAN, B.A.; PLOTNIKOV, N.P.; KADKINA, Ye.V.; MYASNIKOVA, A.T.; SHUBINA, S.B. (Sverdlovsk)

Morphology and cytochemistry of the cells of the HEp-2 tissue culture under normal conditions and in enterovirus infections.

Arkh. pat. 26 nc.9:47-55 164. (MIRA 18:4)

1. Sverdlovskiy nauchno-issledovatel skiy institut virusnykh infektsiy (dir. G.F.Bogdanov).

MYASNIKOVA, A.V.; RALL', Yu.S.; TRISVYATSKIY, L.A., doktor tekhn.
nauk, prof.; SHATILOV, I.S.; LETNEV, B.Ya., red.

[Commercial study of grain and the products of its processing] Tovarovedenie zerna i produktov ego pererabotki. Moskva, Kolos, 1965. 486 p. (MIRA 18:8)

BRAZ, G.I.; MYASNIKOVA, B.V.; YAKUBOVICH, A.Ya.; BATOV, V.I.

Syntheses in the 1,3,5-triazine series. Fart 4: Carbeth (xysubstituted triazines. Zhur. ob. khim. 34 no.9:2980-2987 S '64.

(MIRA 17:11)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

DURROVINSKIY, S.B.; LOGINOVA, N.S.; MIRISMAILOV, M.I.; MYASNIKOVA, D.Ye.

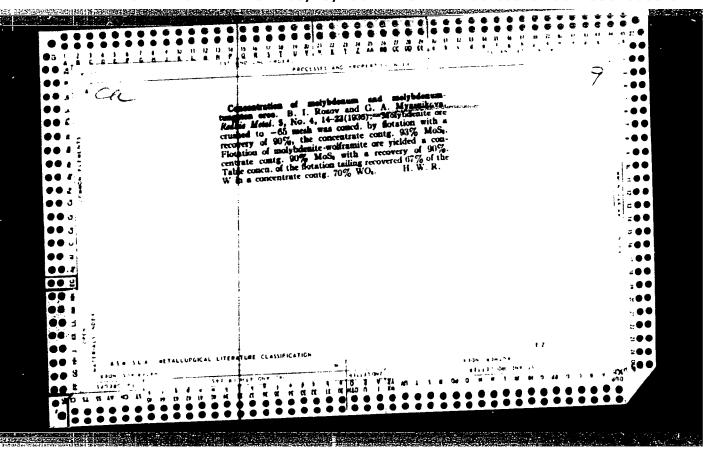
Clinical and epidemiological state of diphtheria in Tashkent (1955-1956). Trudy Tash. NIIVS 5:124-138'62. (MIRA 16:10)

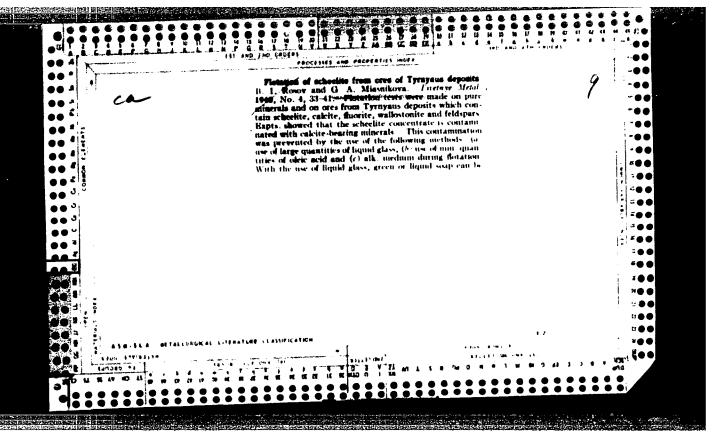
(TASHKENT — DIPHTHERIA)

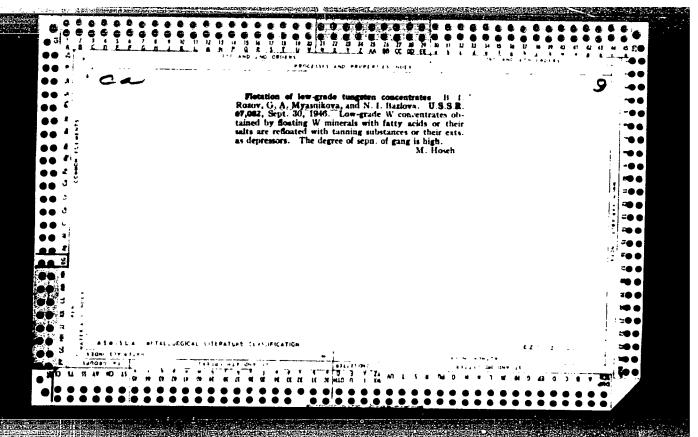
SHARIPOV. M.K.; MYASNIKOVA, D.Ye.; MURZOVA, V.P.

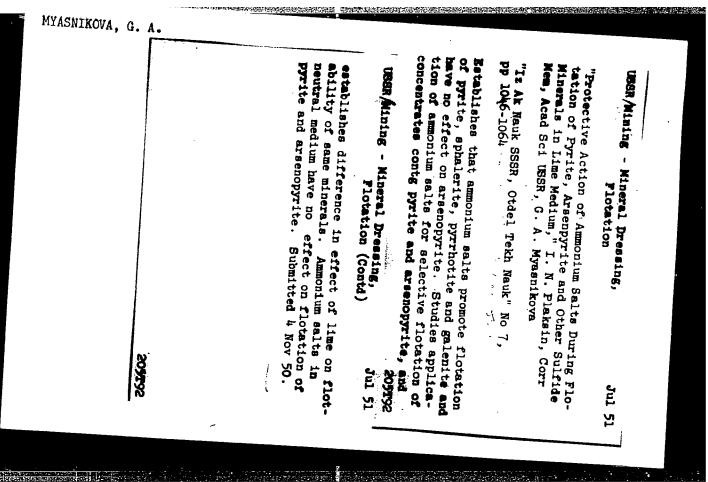
Incidence of scarlet fever in Tashkent (1927-1957). Phor.mauch.trud.
TashCMI 22:355-359 162. [MERA 18 10]

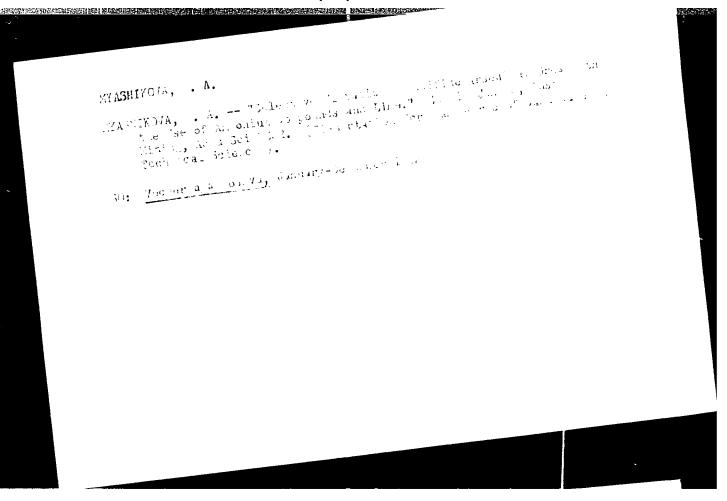
1. Kefedra epid-miclogii (zav. kafedroy - crof. M.V.Scahn'keva)
Tashkentskogo g sudarstvennog meniisinskogo instituta.

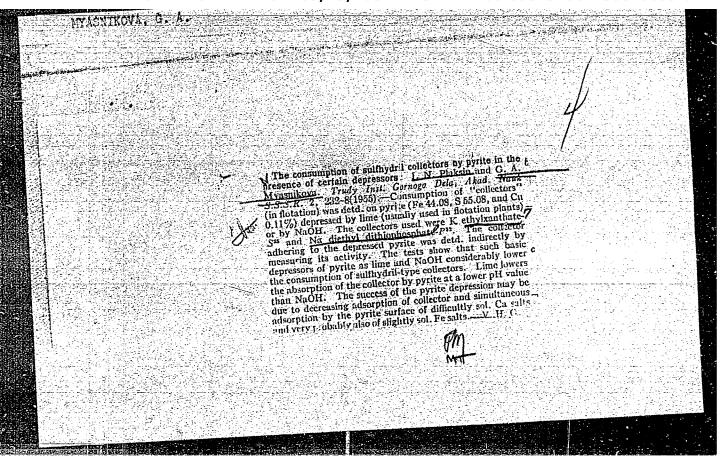












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CONTRACTOR OF THE PROPERTY OF

Plaksin, I. N., Corresponding Member of the 20-117-5-38/54 AUTHORS:

AS USSR, and Myasnikova, G. A.

Using the Radioactive Isotope Cr51 to Study Galena and TITLE:

Pyrite Depression in Selective Flotation

. (Primeneniye radioaktivnogo izotopa Cr51

dlya izucheniya depressii galenita i pirita pri selektivnoy

flotatsii).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 117, Nr 5, pp. 864-866 (USSR)

The authors used for the first time labelled chromium Cr51 ABSTRACT:

for the study of the labelled bichromate- and chromate ion. It is known that these ions depress the two mentioned minerals in the flotation. After the study of the chromate adsorption the distribution of the bichromate among the products of the foam flotation was investigated. The experimental results with the adsorption of the solved bichromate with labelled chromium are described in detail by

the equation of Freyndlikh (figure 1). However, a transition to other compounds can take place here in the adsorption. Indissoluble salts can be deposited as chromate, sometimes as

basic chromate. Figure 2 shows the experimentally found dependences of the adsorption and extraction into the foam

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Using the Radioactive Isotope Cr51 to Study Galena and Pyrite Depression in Selective Flotation

20-117-5-38/54

product on the dosing of the potassium bichromate. It appears from the diagram that the minimum flotation extraction, i.e. a depression state of the minerals, corresponds to the maximum value of the chromate adsorption. The strength of the adhesion of the bichromate to galena can be characterized by desorption by means of rinsing with different quantities of destilled water. Figure 3 gives such desorption curves. They show that at most 32-35% of the adsorbed chromate can be desorbed with water. Hence follows a sufficiently stable chromate adhesion to galena. Furthermore the adsorption of potassium bichromate by galena was measured according to the pH of the medium. The results of the direct determination of the adhesion of bichromate to galena at a constant bichromate concentration are given in figure 4. Within the range of the acid solutions this dependence is described satisfactorily by the equation of Freyndlikh. The adsorption remains almost constant in the neutral and in the alkaline range. The results of the flotation experiments of a quartz-galena-mixture by

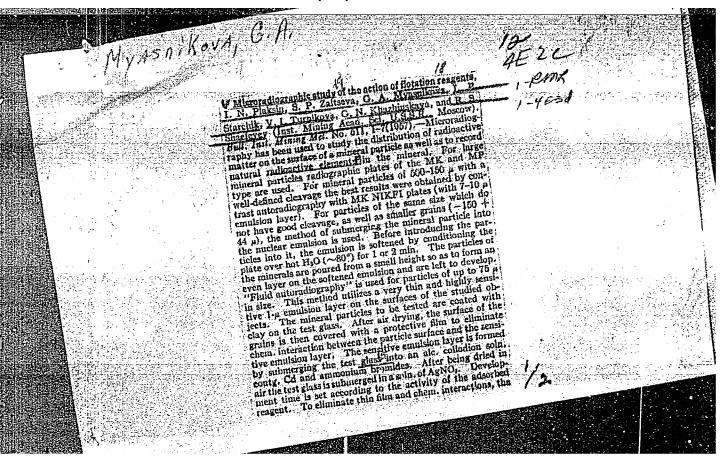
Card 2/4

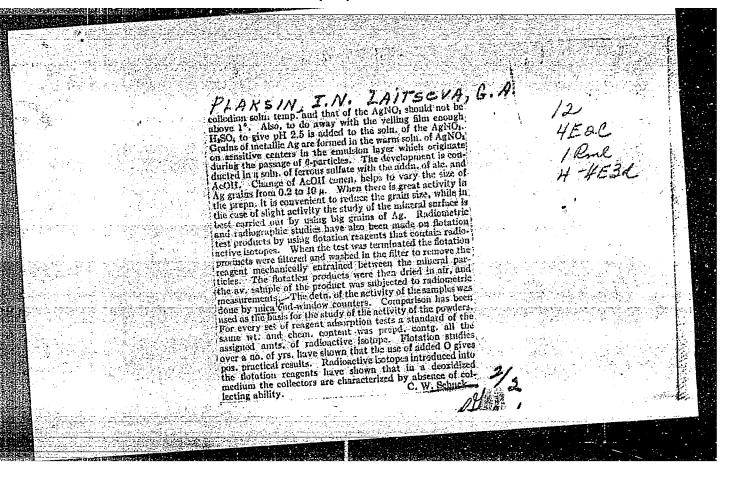
Using the Radioactive Isotope Cr⁵¹ to Study Galena and 20-117 -5-38/54 Pyrite Depression in Selective Flotation

ethylxanthogenate in presence of potassium bichromate at pH of 1,8 up to 7 show that the bichromate (chromate) quantity adsorbed by the foam product decreases with decreasing pH considerably. This quantity increases considerably from pH 5,5 on and reaches the 13 fold at pH 7,0. The same applies in the case of pyrite flotation, however, to a somewhat smaller extent. In experiments with minimum chromate adsorption both minerals (pyrite and galena) are extracted into the foam product in a maximum quantity, i. e. no depres ion takes place. Hence it follows that the reason for the depression of galena and pyrite by chromates can be found in the formation of only to a very small extent soluble middle or alkaline chromates on their surface. The adsorption of chromium salts prevents the mineral particles from adhering to the air bubbles inspite of the presence of the xanthogenate ions on the surface. The abrupt decrease of the chromide adhesion to sulphides at pH <6,0 corresponds to the transition of the bichromate ion into the chromate ion in the liquid phase.

Card 3/4

Using the Radioactive Isotope Cr ⁵¹ to Study Galena and Pyrite Depression in Selective Flotation			
	There are 4 figures.		
SUBMITTED:	September 27, 1957		
Card $4/4$			





s/180/60/000/02/018/028 E111/E152

AUTHORS: Zaytseva, S.P., Myasnikova, G.A., Plaksin, I.N., Starchik, L.P., Tyurnikova, V.I., Khazhinskaya, G.N., and Shafeyev, R.Sh. (Moscow)

Use of Radioactive Isotopes and Nuclear Radiations in the Investigation of the Flotation Process

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, Nr 2, pp 120-132 (USSR)

ABSTRACT: This paper, which includes a survey, was presented by Plaksin at the general meeting of the Otdeleniye Plaksin at the general Sciences Division) AN SSSR tekhnicheskikh nauk (Technical Sciences Division) (Academy of Sciences, USSR) on 27th October 1959. points out that radioactive methods are particularly suitable for flotation research, where they have been applied by various Soviet research organisations including the Institut gornogo dela (Mining Practice Institute) AN SSSR (Acad. Sci. USSR) (Refs 1 and 2). methods developed there are: contact microradiography, in which pulp particles are fixed on a cover glass which is then placed on photographic film; trace microradiography, in which the particles are immersed directly in Card 1/7

S/18**0/**60**/0**00/02**/0**18**/0**28 **E**111**/E**152

Use of Radioactive Isotopes and Nuclear Radiations in the Investigation of the Flotation Process

photographic emulsion; "wet" microradiography, based on the physical adsorption and maturing of silver crystals on active centres in emulsion in a silver-ion containing solution (developed by Gomberg for biological and metallographic use). Experiments with \$35-containing mercapto reagents showed that under normal conditions there was no direct and unique relation between the average density of the collecting-agent layer on the mineral and its flotability (Fig 1). Automicroradiography gave the first experimental proof of the unevenness of the coverage of particle by collecting agent (Fig 2); this work was supplemented by measurements of the electric properties of sulphide-mineral surfaces. donor and acceptor regions were revealed (Fig 3) by polarization in a solution of CuSO4 (or AgNO3) and of KI (or K3 [Fe(CN)6]), respectively. Microautoradiographic studies showed that reagent-distribution is uneven from particle to particle: only those particles which are slightly or not covered with reagent do not appear in the

Card 2/7

CIA-RDP86-00513R001135820003-8

S/180/60/000**/**02**/**018**/**028 **B**111**/E**152

Use of Radioactive Isotopes and Nuclear Radiations in the Investigation of the Flotation Process

froth product (Fig 4). Using the microradiographic method the nonuniformity of various flotation-reagent absorptions by various minerals has been studied (Refs 10-14). With the aid of a special apparatus designed at the Institute by S.V. Bessonov (Ref 16), the influence of oxygen-content on flotation was investigated: some oxygen was found to be essential for flotation, the uniformity of reagent distribution on the froth-product particle surface rising with increasing oxygen The attachment of ethyl xanthate on some concentration. minerals, denied by some non-Soviet workers, was demonstrated using radioactive isotopes (Refs 23, 37 and 40). Investigation of these minerals (zinc blende and pyrrhotine) enabled the influence of their crystal-lattice defects on flotation to be shown. Fig 5a shows the effect of grams of pine oil per ton of mineral on recovery of pyrrhotine, and Fig 5b shows the corresponding effect on the absorption of various xanthates on the mineral. Fig 6 gives corresponding curves for addition of type DS

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s/180/60/000/02/018/028 B111/B152

Use of Radioactive Isotopes and Nuclear Radiations in the Investigation of the Flotation Process

detergent (mainly consisting of alkylaryl sulphonates): as the detergent feed rises more and more pyrrhotine grains have nonuniform xanthate distribution (Figs 7a and 7b give microradiographs for froth product particles for 200 and 1800 g of detergent per ton, respectively). Work with marked xanthate has shown that chromates do not displace that reagent from sulphide-mineral surfaces (Refs 26, 27) and, using Cr51 the depressing action of chromate has been studied in relation to the amount added and the pH of the solution. Fig 8 shows dichromate adsorption by galenite as a function of pH; in Fig 9 the adsorption of chromate (A) and the recovery of froth fractions of galenite (curves 1, 4) and pyrite are shown as functions of potassium dichromate added (g/ton). Under acid conditions the Freundlich isotherm is followed in Fig 8; an alkaline solution adsorption stays Virtually constant. In Fig 9 maximum adsorption for both minerals corresponds to minimum flotation recovery and conversely. The authors conclude that the depressive

Card 4/7

S/180/60/000/02/018/028 B111/E152

Use of Radioactive Isotopes and Nuclear Radiations in the Investigation of the Flotation Process

action of chromates on these minerals is due to the formation on the mineral surface of very insoluble medium or basic chromates which prevent adhesion of particles to bubbles. Marked tridecylamine has been used to investigate the reaction of a cationic collecting agent with minerals. Fig 10 shows the adsorption of the reagent from aqueous solution of its acetates on huebnerite, quartz, fluorite and calcite (curves 1, 2, 3 and +, respectively). Recoveries of huebnerite and quartzite were compared with tridecylamine absorption by them for pH of 1.5-10.0. Flotation experiments were also carried out with mixtures of minerals using marked tridecylamine (100 g/ton) at pH = 1.5. Complete separation into two products was possible, with 41-67% of the reagent absorbed by the froth product and only 1-4% Experiments were made on the firmness by the non-froth. of adhesion of cationic collecting agents on non-sulphide mineral surfaces in which 1-150 ml volumes of distilled water were used to wash tridecylamine from mineral powders:

Card 5/7

S/180/60/000/02/018/028 **B**111/**E**152

Use of Radioactive Isotopes and Nuclear Radiations in the Investigation of the Flotation Process

adhesion was strong on huebnerite and wolframite and less so on quartz, calcite and fluorite (Fig 11 gives absorption as functions of water volume). Microradiograms (Fig 12) show that tridecylamine is unevenly The distributed on the huebnerite-particle surface. authors give some examples of radioactive isotope applications. Plaksin and M.A. Goldin have proposed a pulp-density test device based on radioactive caesium. A special launder proposed by the authors has given good results in prolonged tests at the Yuzhnyy gornoobogatitel' nyy kombinat (Southern Mining Beneficiation Combine). Quantitative analysis of ore dressing products could be obtained by bombardment with alpha particles to cause neutron emission. This has been applied to fluorite ores, with a special installation for bombardment (from Po210 on platinum foil) in which the powder enclosed in a container was placed on a table on a type SCh-3 neutron counter with the source above it. Working curves for the test elements are previously prepared. Particle size has

Card 6/7

S/180/60/000/02/018/028 **B**111/**B**152

Use of Radioactive and Nuclear Radiations in the Investigation of the Flotation Process

no appreciable effect and the fast neutrons emitted are not absorbed in the material. This procedure is simpler and safer than previously proposed (Refs 32, 33) methods. For aluminium-containing ores the authors propose the transmutation of A127 into p30 by alpha particles from po210, the decay of the phosphorus giving high-energy positrons. This method, with suitable working curves, enables 0-100% A1203 to be determined sufficiently accurately without interference from other elements, and requires a sample of 1 g or less. There are 12 figures and 42 references, of which 30 are Soviet, 11 English and 1 is German.

Card 7/7

SUBMITTED: December 4, 1959

PLAKSIN, I.N.; ZAYTSEVA, S.P.; MYASNIKOVA, G.A.; TYURNIKOVA, V.I.; KHAZHINSKAYA, G.N.; MAKARENKO, M.G., red. izd-va; VOLKOVA, V.V., tekhn. red.

[Use of radiiactive isotopes in studying flotation] Primenenie radioaktivnykh izotopov dlia issledovaniia protsessov flotatsii. Moskva, Izd-vo Akad. nauk SSSR, 1963. 97 p. (MIRA 16:5)

(Flotation) (Radioisotopes)

 \mathcal{B}

L 20089-65 EWP(s)-2/EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-L/Pr-L/Ps-L/Pt-10 RPL/ACCESSION NR: AP4049926 ASD(m)-3 WW/JW/ S/0020/64/159/003/0630/0631

AUTHOR: Yakubovich, V. S.; Myasnikova, G. V.; Braz, G. I.; Yakubovich, A. Ya.

TITLE: Synthesis of polybenzoxazole

SOURCE: AN SSSR. Doklady, v. 159, no. 3, 1964, 630-631

TOPIC TAGS: benzoxazole, polybenzoxazole synthesis, heat resistant polymer, dihydroxybenzidine, isophthalyl dichloride, isophthalic acid, terephthalic acid

ABSTRACT: To obtain polymers with high thermal stability, the authors studied the condensation of 3,3'-dihydroxybenzidine with isophthaly1 dichloride. The process is a two-step reaction: 1) formation of a poly(hydroxy amide) at OC and 2) formation of a polybenzoxazole through intramolecular ring closure at 350C. The authors synthesized poly-2,2'-(m-phenylene)-6,6'-dibenzoxazole:

Card 1/3

L 20089-65
ACCESSION NR: APhologoge

dihydroxydiphenylterephthalamide). Orig. art. has: 1 figure.

ASSOCIATION: Fiziko khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute)

SUBMITTED: 25Jun64 ENCL: 00 SUB CODE: OC, GC

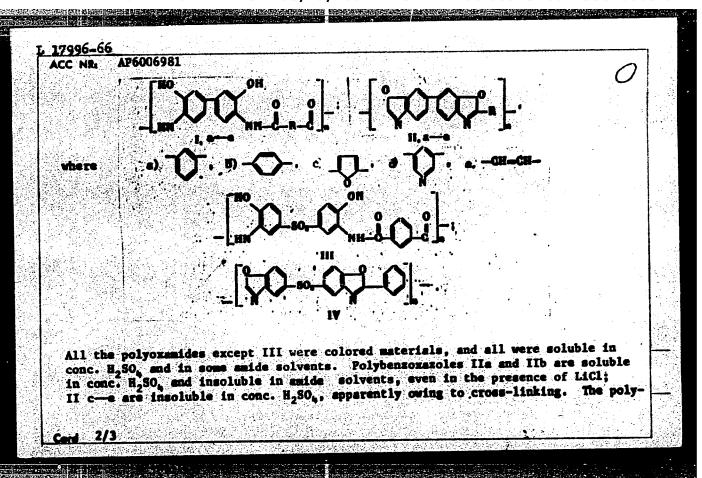
NO REF SOV: 001 OTHER: 003 ATD PRESS: 3158

BRAZ, G.I.; MYASNIKOVA, G.V.; YAKUBOVICH, A.Ya.; BAZOV, V.P.;
SAKODYNSKIY, K.I.

Simultaneous trimerization of acetonitrile and trichloroacetonitrile.
Zhur.ob.khim. 33 no.6:1939-1941 Je '63. (MIRA lo:7)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.
(Acetonitrile) (Polymerization)

	6 EWT(=)/EWP((1)/T TAP6006981	A) SOURCE	CODE: UR/0190/66/008/00	2/0272/0277
AUTHOR: Ardashn	Braz, G. I.; Kardas Ikov, A. Ya.; Oleynik	h, I. Ye.; Yakubo i, A. P.; Pravedni	wich, V. S.; Myasmikowa, kov. A. N.; Yakubowich, A	1. V. 34
ORG: P	hydical Chamistry Inc	ititute im. L. Ya.	Karpov (Fiziko-khimiches)	kly institut)
TITLE:	Polybensomesoles:	preparation and th	ermal degradation 15, 44.5	S
SOURCE:	Vysokomolekulyarny	ye soyedineniya, V	7. 8, no. 2, 1966, 272-277	
TOPIC T	AGS: heat resistant	polymer, polyoxan	mide, polybenzowazole	
withsta (I, a— bensidi dicarbo verted	nd temperatures up to e) were prepared by ne with isophthalo nyl, and funacyl chl to the polybenzowaso demosition of bis(4-b	o 520—530C in vac low-temperature (? yl, terephthaloyl, orides in dimethyl les (II, a-e) by t ydroxy-3-aminopher	provided have been preparation. Polyoxawide intermed 00 polycondensation of 2,5-furandicarbonyl, 3,5 lacetamide. The polyoxamic cyclodehydration. The polyoxamic cyclodehydration of the polyoxamic cyclodehydration.	3, 3'-dihydron -pyridine- des were con- In addition,
produce	d polyozamide III wh	ich was converted	to polybenzoxazole IV.	
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ard 1/		UD.C:	541.64+678.01:54+678.67	
	decimando a citado o acesa dos estados terminos			4.5

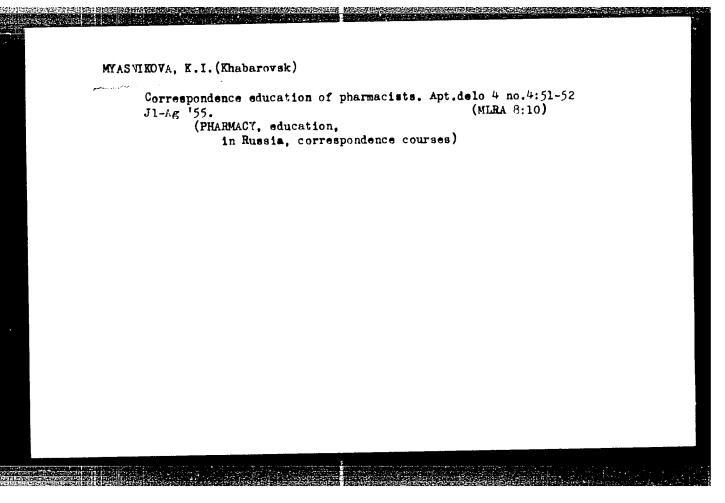


benz	toxazoles sho	w bright lumine ital enalyzing.	scence. Str	uctures ver	e confirm	ed her TD .	0
					res, a 116	ures, and	spectro- i 4 formu- [SM]
SUB	CODE: 11/	SUBN DATE: 13M	er65/ ORIG	REF: 001/	OTH REF:	009/ A1	TD PRESS:
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			ing Tagan Tenjah Ir				
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HYASHIKOVA, I.A.

Effect of ascorbic acid and of vitamin A on the development of experimental cholester in atheroscherisus, fr. Akad. med. nauk SSSE. Vol. 20:103-107 1952. (CIML 25:5)

1. Of the Institute of Therapy (Director --- A. L. Myasnikov, Active Hember AMS UBSR), Academy of Medical Sciences USSR.



ACCESSION NR: AP5013122	UR/0370/65/000/002/0175/0179 . 669.017.12 29
	669.017.12 29
AUTHOR: Kornilov, I. I.; M	yasnikova, K. P.
14 원인 (1921일 1921) 한 소설 4 5 15 10 원 경기 최근 시간 시간 전 원 경기 사기를 가지 않는다.	d some properties of <u>nickel-rhodium</u> alloys
SOURCE: AN SSSR. Izvestiya	. Metally, no. 2, 1965, 175-179
property, binary phase diagr	
ray analysis. Electrical revated temperatures (up to 12 complete series of solid solpolished samples of cast and tural studies. Lattice parafrom Vegard's law. The devi	was determined using thermal, microstructural and x- sistance, microhardness and hardness at room and ele- 273°K) were investigated. The phase diagram shows a lutions extending from pure Ni to pure Rh. Electro- li heat treated specimens were used for the microstruc- meter versus composition showed an upward deviation lation is similar to those (observed by other researches mg Ni with Rh leads to an abrupt initial increase in of the temperature coefficient. These quantities are

\$/598/62/000/007/006/040 D267/D307

Boriskina, N. G. and Myasnikova, K. P. AUTHORS:

Investigating the solubility of iron, manganese and TITLE:

copper in a-titanium

Akademiya nauk SSSR. Institut metallurgii. Titan i yego SOURCE:

splavy. no. 7, Moscow, 1962. Metallokhimiya i novyye

splavy, 61-67

TEXT: This research was carried out in order to fill the existing gap, the more so as Fe, Mn and Cu (also Cr and Si) have a considerable effect on the properties of multicomponent alloys used in industry. The various alloys of Ti with Fe, Mn and Cu were prepared by levitation melting in He, with subsequent heat treatment with or without deformation. The following results were obtained from the investigation of solubilities: (1) about 0.5 wt-% Fe dissolves at the temperature of the eutectoid transformation (585 -600°C); in the temperature range 550 - 400°C the maximum solubility of Fe in \(\alpha\)-Ti remains constant at ca. 0.4 wt-\(\pi\); (2) the so-

Card 1/2

S/598/62/000/007/006/040 D267/D307

investigating the solubility ...

inbility of Mn at the temperature of the eutectoid transformation (550°C) is 0.4 wt-% and remains constant at 0.3 - 0.4 wt-% in the range 550 - 400°C; (3) the maximum solubility of Cu in α -Ti is ca. 1.5% at the temperature of the eutectoid transformation (798°C) and does not vary in the interval 798 - 400°C. There are 5 figures and 1 table.

Card 2/2

L 14308-65 EPR/ENT(m)/EWP(b)/EWP(t) ASD(m)-3/AFTC(p) JD/JG/MLK \$/0000/64/000/000/0030/0037 ACCESSION NR: AT4048048 AUTHOR: Mikheyev, V. S.; Myasnikova, K. P. TITLE: The phase structure of alloys of the TI-Al-Fe-Cr-SI system with a constant 27272727 aluminum and silicon content to SOURCE: Saveshchaniye po metallurgil, metallovedeniyu i primeneniyu titana i yego splavov. 5th, Moscow, 1963. Metallovedeniye titana (Metallography of titanium) trudyw soveshchaniya. Moscow, 12d-vo Nauka, 1964, 30-37 TOPIC TAGS: alloy structure, alloy hardness, alloy phase composition, titanium alloy, aluminum alloy, Iron alloy, chromium alloy, silicon alfoy ABSTRACT: The series of strong alloys formed by chromium, Iron, silicon, and boron on a titanium-aluminum base has been well-studied. The present work continues the experiments of Kornilov on the tetrahedral Ti (0.3% Si)-Al-Fe-Cr system, but with the amount of aluminum held constant at 7.5% by weight and varying the amounts of Iron and chromium from 3:1 to 1:1 and 1:3, while keeping their total weight between 0.2 and 30%. Materials used for the experiment were sponge titan-ium, electrolytic chromium, silicon, aluminum, and iron with carbon, manganese, phosphorus, and sulfur impurities. Samples weighing 20 g were prepared in an arc Card 1/4

L 14308-65

ACCESSION NR: AT4048048

furnace in an argon atmosphere with a loss of below 0.5%. The samples were cast In rods 7 mm in diameter. All thermal operations were carried out in sealed, evacuated quartz ampoules. The samples were heated to temperatures of 1100, 1000, and 500C and held there for 10, 15, 300, and 750 hours, respectively. The samples were then subjected to microscopic and X-ray analyses. Their hardness was measured by Vickers' method, and their electrical resistance was determined by means of a potentiometer. The results of all these measurements were carefully plotted on graphs showing the phase equilibria boundaries as a function of temperature for each composition, and the electrical resistance and hardness as functions of temperature and composition. (See Figs. 1 and 2 of the Enclosure). Orig. art. has: 1 table, 10 graphs, and 10 photomicrographs.

ASSOCIATION: none

SUBMITTED: 15Ju164

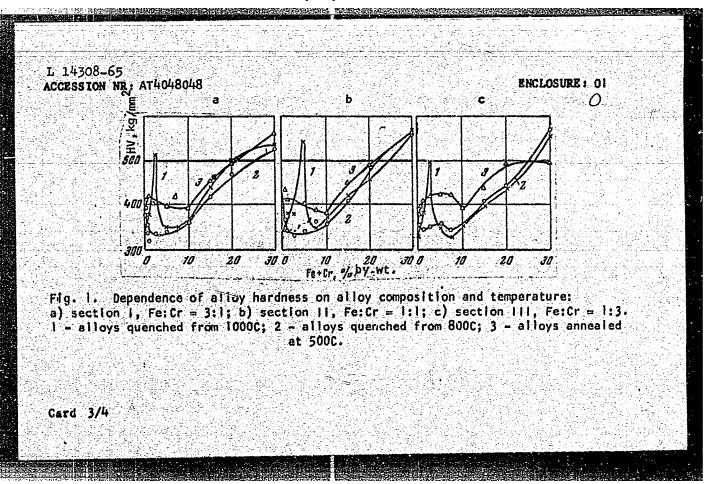
ENCL: 02

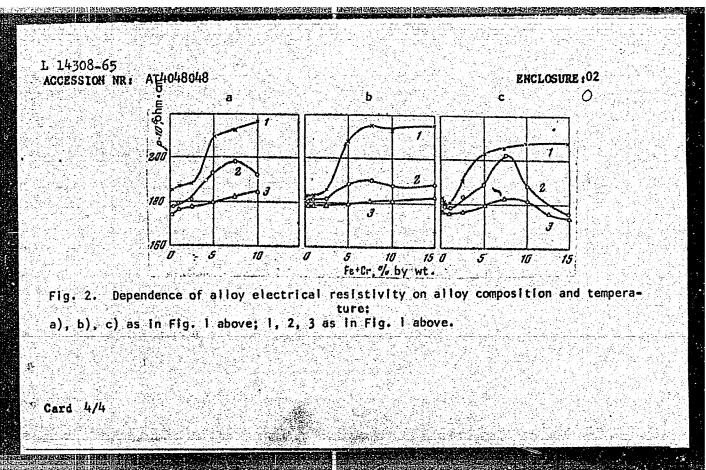
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NO REF SOV: 013

OTHER: 002

Card 2/4





\$\\\ \\$\/0279\6\\\\/000\/002\/0156\/0160

ACCESSION NR: AP4029839

AUTHOR: Mikheyev, V. S. (Moscow); Chernova, T. S. (Moscow); Hyasnikova, K. P. (Moscow); Markovich, K. P. (Moscow)

TITIE: On the composition and structure of the intermetallic compound phase in alloys of the Ti-Al-Cr-Fe-Si-B 6 component system

SOURCE: AN SSSR. Izv. Metallurgiya i gornoye delo, no. 2, 356, 156-160

TOPIC TAGS: titanium base alloy, aluminum containing alloy, chromium containing alloy, iron containing alloy, silicon containing alloy, boron containing alloy, alloy composition, phase composition, intermetallic compound phase

ABSTRACT: To determine the nature of intermetallic phase present in six-component aluminum-base alloys, the authors studied two series of alloys containing 0.5-15.0% chromium, 0.5-15.0% iron, 0.5-15.0% silicon, 0.01% boron. One series did not contain aluminum, and the other had a 3 and 6 wt.-% aluminum content. The alloys were melted from TG-00 sponge titanium, A-000 aluminum, KR-0 reduced technical iron, electrolytic chromium, and chromium-boron master alloy containing 10% of the latter. The alloys were melted in an arc vacuum furnace. The alloys were studied by means of microstructural and x-ray structural analyses after an-

Card 1/2

			-
ACCESSION NR: AP4029839			
nealing at temperatures and 500 hours, respective that the phase in questicity crystallization from the figures and 2 tables.	ely. In evaluating the on is Tissia precipits	e results the authors co ting along the line of s	econdary
ASSOCIATION: none			
SURMITTED: 16Sep63	ENCL: 00	SUB CODE: HM	
no her sov: oo4	OTHER: 004		:
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Cord 2/2		and the state of t	

L 8400-65 EWT(m)/EWP(q)/EWP(b) Pad ASD(m)-3/AS(mp)-2 JD/HW/JG 5/0279/64/000/004/0159/0165 ACCESSION NR: AP4043925 AUTHOR: Kornilov, I. I. (Moscow); Myasnikova, K. P. (Moscow) TITLE: Phase diagram and some physical properties of alloys of the nickel-ruthenium system 71 v AN SSSR. Izv. Metallurgiya i gornoye delo, no. 4, 1964, SOURCE: 159-165 TOPIC TAGS: nickel ruthenium system, nickel ruthenium alloy, alloy phase diagram, alloy structure, alloy microhardness, alloy electric resistivity, alloy microstructure ABSTRACT: The phase composition, microstructure, hardness, micro-hardness, and electric resistivity of 26 binary Ni-Ru alloys containing from 0 to 100% Ru were investigated. The alloys were melted from 99.99% pure Ru in an electric arc furnace in argon under a pressure of 300 mm Hg. After a 10-30% reduction, the alloy ingots were homogenized at 1673K for 5 hr, and then heat-treated to suit individual tests. During reduction the as-cast alloys with up to 50% Ru did not crack, while those with more than 50% Ru did crack. Card 1/4

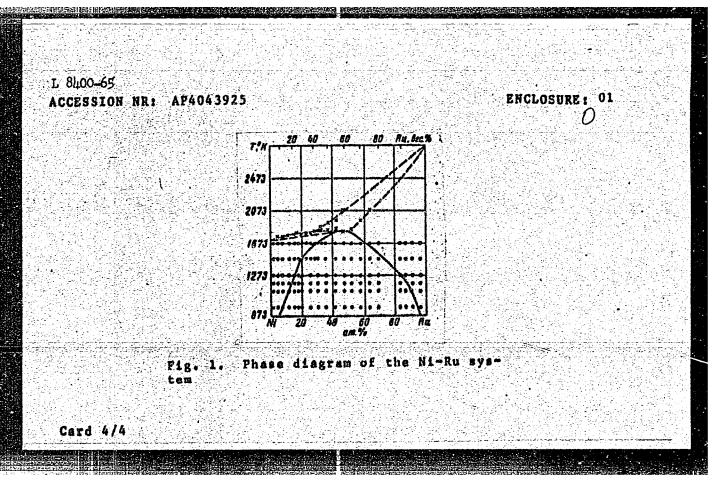
L 8400-65 ACCESSION NR: AP4043925

The phase diagram of the Ni-Ru system (see Fig. 1 of the Enclosure) shows that crystallization of the melt proceeds according to a peritectic (β + L = α) reaction at 1823 \pm 10K. At this temperature, the solubility of Ru and Ni in each other is at a maximum of 41 and 53 at%, respectively; the corresponding figures for 873K are 7.0 and 5.0 at%. The lattice constants of Ni and Ru solid solutions change linearly with the concentration of the second component. The lattice constant of the α -solid solution increases with increased Ru content; the lattice constants of the β -solid solution decrease with increased Ni content, although the c/a ratio remains practically constant. No phase transformations occur in the Ni-Ru alloys in the solid state. Microhardness of the α - and β -solid solutions increases with increased content of the alloying elements, regardless of the quenching temperature. In the two-phase region, the microhardness of each phase remains constant for a given quenching temperature. Changes in the specific resistivity and hardness of the alloys, depending on the alloying element concentration and temperature, follow the pattern for the systems with limited solid solutions. Orig, art, has: 6 figures and 2 tables.

ASSOCIATION: none

Card 2/4

SUBMITTED: 25Peb64	ATD PRESS: 3101	encli 01	
SUB CODE: MM	NO REF SOVE 005	OTHER: 001	
Card 3/4			



ACC NR: AT6005931	SOURCE CODE: U)/ewa(1) ww/cs R/0000/65/000/000/0441,	
AUTHOR: Myshkova, L.			46 B+1
ORG: Leningrad State gosuderatvennyy univer	University im. A. A. sitet	Zhdanov (Leningradski)	7
FITLE: Investigation	of heat fluxes in br	esk-away zones	
vzaimodeystvii tel s p	otokemi zhidkostey i ransfer in the inter	plo- i massoperenos pri gazov (Heat and mass t action of bodies with l 1965, 441-451	trensfer.
ABSTRACT: The aim of	furbulent foundary land the work was an Inve	flux, laminar heat transtigation of heat transmoving at a high super	sfer
velocity. The investi 1) the flow in the mix by the corresponding e layer; 2) the statisti	gation was based on ing zone is laminar quations for the lam cal pressure everywh	the following assumptic (turbulent) and is desc inar (turbulent) bounds ere in the bottom regio	ons: cribed ary on is
		e "interaction" is take everywhere constant in	

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ACC NR: AT6006931

stagnation cone, and is equal to the temperature at the null line in the mixing zone. The following expression was used for investigation of heat transfer in the bottom zone:

$$Nu_{a} = \frac{ax}{\lambda} = -\lambda \left(\frac{\partial T}{\partial y}\right)_{p=-p_{a}} \frac{1}{T_{d}-1} \frac{x}{\lambda},$$

where d is the heat transfer coefficient; A is the heat conductivity coefficient; yo is the ordinate of the lower limit of the mixing zone. Results are given in a series of curves. Orig. art. has: 17 formulas and 5 figures.

SUB CODE: 20/ SUEM DATE: 09Nov65/ ORIG REF: 005/ OTH REF: 001

Cord 2/21da

ISAKOVA, N.A.; POLIKARPOVA, V.F.; MOGILEVSKAYA, R.A.; REMIZ, Z.K.; BELOVA, G.A.; FIKHTENGGL'IS, V.S.; GAFFONGV, I.V., red.; MYASHIKOVA, L.B., red.

[Analysis of the products of the synthetic rubber industry]
Analiz produktov proizvodstva sinteticheskikh kauchukov.
Moskva, Khimiia, 1964. 315 p. (MIKA 17:12)

1. Leningrad. Vsesoyuznyy nauchno-i .ledovateliskiy institut sinteticheskogo kauchuka.

GRIGOROV, O.N., prof.; KARPOVA, I.F.; KOZ'MINA, Z.P.; TIKHCMOLOVA, K.P.; FRIDRIKHSBERG, D.A.; CHERNOBEREZHSKIY, Yu.M.; MYASNIKOVA, L.B., red.

[Manual on laboratory work in colloid chemistry] Rukovodstvok prakticheskim rabotam po kolloidnoi khimii. Izd.2., perer. i dop. Moskva, Khimiia, 1964. 330 p. (MIRA 18:3)

5/204/63/003/001/003/013 E075/E436

AUTHORS:

Fel'dblyum, V.Sh., Komissarova, G.P., Myasnikova, L.D.,

Kryukov, S.I., Farberov, M.I.

TITLE:

The synthesis of isoprems from propylene. 1. Analysis of aluminium alkyle in the process of dimerization of

propylene

PERIODICALI Neftekhimiya, v.3, no.1, 1965, 13-19

TEXT: The aim of the work was to investigate the methods for the analysis of activity and composition of aluminium alkyls. analysis consists of determining the ratio of the "active" aluminum in ALR, where R - an organic radical, to total Al. The methods used to determine the "active" Al were: 1) the indicator method of Razuvayev and Grayevskiy, 2) the Ziegler ammoniacal method, 3) the Tepenitsyng-Farberova exidation-reduction method, 4) decomposition of AlR3 with H20 with the subsequent measurement of the evolved gas volume. The first two methods gave correct velues of the activity but are tedious in operation. The authors improved the Ziegler method by using di- or trimethylamine in place of NH3, which greatly decreased the analysis time. Examination of Card 1/2

S/204/63/003/001/003/013 E075/E436

The synthesis of isoprene ...

AlRy used several times for the catalysis of the dimerization of propylene showed that the first portion of the higher hydrocarbons propylene showed that the first portion of the higher hydrocarbons (byproducts) forming during the reaction attach themselves to Al, (byproducts) forming during the reaction attach themselves to Al, or displace a part of the lower alkyl groups in AlRy. Thus AlRy or displace a part of the lower alkyl groups mixture of aluminium used several times as catalyst is a complex mixture of aluminium used several times as catalyst is a complex mixture of aluminium alkyls, the molecules of which contain propyl and isobutyl groups alkyls, the molecules of which contain propyl and isobutyl groups and at least one C9-C12 group. There are 2 figures and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut monomerov dlya SK Yaroslavskiy tekhnologicheskiy institut (Scientific Research Institute of Monomers for (Scientific Rubber, Yaroslav, Technological Institute) Synthetic Rubber, Yaroslav, Technological Institute)

SUBMITTED: June 9, 1962

Card 2/2

FEL'DBLYUM, V. Sh.; MYASNIKOVA, L.D.; KRYUKOV, S.I.; FARBEROV, M.I.

Synthesis of isoprene from propylene. Neftekhimiia 4 no.2: 257-261 Mr-Ap¹64 (MIRA 17:8)

1. Nauchno-issledovateliskiy institut monomerov dlya sinteticheskogo kaushuka, Yaroslavli i Yaroslavskiy tekhnologicheskiy institut.

KRYUKOV, S.I.; KUT'IN, A.M.; KOMISSAROVA, G.P.; MYASNIKOVA, L.D.; FARBEROV, M.I.

Dimerization of propylene by means of aluminum alkyls. Izv. vys. ucheb. zav.; khim. i khim. tekh. 7 no.51821-826 164 (MIRA 18:1)

l. Yaroslavskiy tekhnologicheskiy institut. Kafedra tekhnologii osnovnogo organicheskogo sinteza i sinteticheskogo kauchuka.

L 54964-65 EWT(m)/EWG(m) - RWH/RM UR/0191/65/000/005/0054/0055 ACCESSION NR: AP5012109 661.183.123 AUTHOR: Shaburov, M.A.; Myasnikova, L. G.; Belonogova, Yu. I. TITLE; Effect of the degree of cross linking of anion exchange resins on their thermal stability SOURCE: Plasticheskiye massy, no. 5, 1965, 54-55 TOPIC TAGS: anion exchange resin, resin heat stability, polymer structure, resin cross linkage, divinylbenzene copolymer, polymer degradation, deamination ABSTRACT: The paper reports data on the influence of the content of divinylbenzene (DVB), present in the anion exchanger AV-17 (OH form) in amounts of 2, 6, and 16%, on the stability of this resin to H2O, methanol, ethanol, and their aqueous solutions at 100C. The decline in the exchange capacity of the resins was found to be a function of the heating time in all cases. Heat treatment causes simultaneous reactions of deamination and degradation of strongly basic groups; the average rates of these reactions were calculated and compared. As the DVB content increases, the space lattice of the resin acquires a more rigid Card 1/2

SUBMITTED: 00 ENCL: 00 SUB CODE: G-C, つし NO REF SOV: 005 OTHER: 004	of the resin will be higher the resin will lose its wat to come closer together; th	these media. It is suggested that the thermal stability or in inert nonpolar solvents than in polar ones, but. ater of hydration, which will cause the active groups this will result in a weakening of the C-N bond and in a conducive to the detachment of the amino groups.
NO DEE SOU - OOS OTHER - OOA	the creation of conditions Orig. art. has: 2 tables. ASSOCIATION: None	
	Orig. art. has: 2 tables. ASSOCIATION: None	

NYASNIKOVA, L. K.: Master Med Sci (diss) -- "Un the functional state of the higher portions of the brain of children suffering from ascaridosis". What'kov, 1959. 11 pp (Khar'kov State Med Inst), 200 copies (KL, No. 1, 1959, 12.)

L 60139-65 ENT(m)/EPF(c)/EWG(v)/EWD(3)/T-Pe-A/Pe-5/Pr-4 JAJ/RM UR/0190/65/007/006/1041/1044 ACCESSION NR: AP5016507 678.01:53+678.675 Myasnikova, L. P.; Slutsker, A. AUTHORS: Zhurkov, S. N., Marikhin, V. A. TITLE: Electron microscopic study of the orientation of polycapramide SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 6, 1965, 1041-1044, insert facing p. 1042, and top half of insert facing p. 1043 TOPIC TAGS: electronmicroscopy, polycapramide, polymer, tensile strength, tensile stress, resin, caprone / JEM 5Y electron microscope ABSTRACT: The transformation of the original spherulite structure of caprone into an oriented structure was studied in order to elucidate the disorder -> order processes in polymers subjected to a longitudinal stress. The polymer studied was caprone (polycaprolactam) prepared from a solution of caprone in formic acid. The investigation was carried out on an electron microscope of type JEM-5Y. The specimens were elongated at room temperature to 35, 75, and 230% of their original length. The direction of elongation on the electron microscope photographs was determined after S. N. Zhurkov, V. A. Marikhin, L. P. Romankova, and A. I. Slutsker (Vysokomolek. soyed., 4, 2821, 1962). On the basis of electron Card 1/2

L 60139-65 ACCESSION NR: AP5016507	ncluded that during elongation	of the specimen the
spherulite structure breaks of gradually spreads out over the graphs and 1 illustration.	he bulk of the polymer. Orig.	art. has: 3 photo-
ASSOCIATION: Fiziko-tekhnic Institute)	heskiy institut im. A. F. Ioff	중 학생 그들은 중심 등이 들어왔다.
SUBMITTED: 20Jul64	ENCL: 00	SUB CODE: EC,
NO REF SOV : 007	OTHER: 007	

\$/081/63/000/004/017/051 B166/B186

(17) Kalabina, A. T., Myasnikova, L. S., Kolmakova, E. P., AUTHORS: Sheetakova, I. R., Pavlova, M. P., (18) Kalabina, A. V.,

Prileshayeva, Ye. H., Yakovleva, Z. I.

TITLE: Studies in the field of synthesis and conversions of vinylaryl esters. Io. 17. Synthesis and certain properties of α, β -dibromethylaryl esters. No. 18. The addition of mercaptans to vinyl esters of the aromatic series

Referativnyy shurnal. Khimiya, no. 4, 1963, 238, abstract 4Zh122 (Isv. Fis.-khim. n.-i. in-ta pri Irkutakom un-te, v. 5, PERIODICAL: no. 1, 1961, 193 - 206, 225 - 237)

TEXT: (17) Brownstion of the vinyl esters of phenol (I), o-cresol (II), n-tert-butylphenol and thysol (III) in CCl gave the respective α,β-dibronethyl esters (IV - VII), which have lachrymatory properties; without the solvent partial polymerisation takes place. IV - VII probably exist in the form of two tautomeric forms CH,BrCHBrOAr = [CHBr=CHO(H)Ar] Br , as ionic Br is easily back-titrated by equeous solutions of MaOH and AgNO,

Card 1/4

Studies in the field of ...

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while t IV - VII themselves are smoothly converted into β-browvinyl esters (BVE) when vacuum distilled, yield 80 - 85%. Hydrolysis of IV - VII proceeds in two distinct stages: first of all under the action of H,O cold there is dissociation of the weak exemium complex, and the BVE which forms only splits with long boiling in an acid medium. Into a solution of 0.14 moles I in 40 ml CCl at -50C (3 - 8°C inside the flask) were stirred, over a period of 1.5 - 2 hrs; 0.15 moles dry Br in 20 ml CCl4, and IV, CoH80Br2, was distilled off, yield 97.2%, b.p. 129 - 130°C/12 mm Hg, n D 1.5849, d 20° 1.7418, fumes in air. 3 g IV and 50 ml water were shaken in a closed bottle at 45 - 50°C for 5 hrs, this was extracted with ether, and 1.19 g phenol BVE (VIII) was separated by distillation, b.p. 100 - 102°C/10 mm Hg, n20D 1.5750, as well as 1.403 g IV. 1 g VIII and 25 ml 5% ${
m H_2SO_4}$ were heated, stirring at $\sim 100^{\circ}{
m C}$ for 6 - 7 hrs; this was neutralized with alkall and extracted with ether; after evaporating, BrCH2CHO was separated from the residue in the form of a semicarbasone; the alkaline layer was treated with 10% H2SO4, C6H5OH was extracted with ether. Y - VII were synthesized under similar conditions Card 2/4

8/081/63/000/004/017/051 Studies in the field of ... B166/B186 (below are given; the substance, yield %, b.p. in oc/am Hg, n D, d 20): T, 97.6, 133 - 134/14, 1.5718, 1.5662, (BVE, b.p. 145 - 148°C/35 mm Hg, 20_D 1.5662); VI, 96.1, 126 - 127.3, 1.5450, 1.4909; VII, 97.5, 149 - 150.4, (18) The addition of ethyl- and butylmercaptans to I - III was achieved by ionic and radical mechanisms, leading to CH,CH(SR)OAr (IX) and RSCH2CH2OAr (X) respectively. Substitutes of the first kind in the bensene ring considerably simplify radical addition. The thioacetals produced are easily hydrolysed with dilute H2SO4 and split quantitatively when X is treated with HgCl,, which proves their structure to be that of \$ adducts; under these conditions IX is highly stable. 0.1 mole I, 0.1 mole C2H5SH and 0.02 g azodissobutyrodinitrile were heated in a scaled ampoule at 90 - 100°C for 24 hrs, and I (B = C2B5, Ar = C6B5), C10B1408, was distilled, yield 85.02%, b.p. 123.5°C/3 m Hg, n²⁰D 1.5435, d₄²⁰ 1.0543. The other I were produced under similar conditions (below are given, B, Ar, the gross formula, yield &, Card 3/4

Studies in the field c'... S/081/63/000/004/017/051

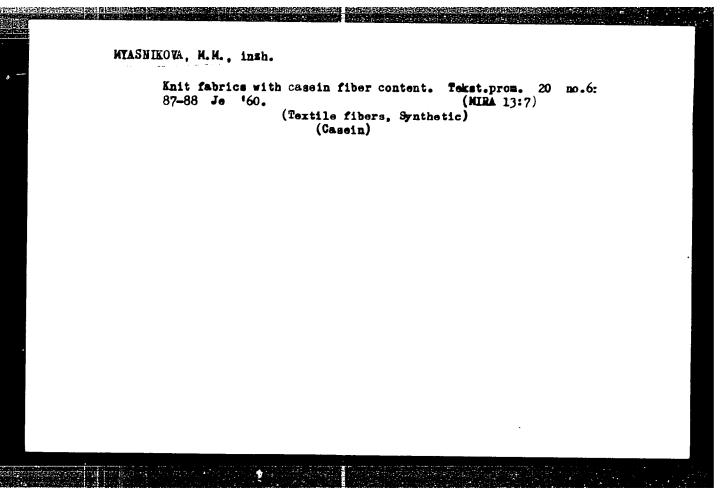
b.p. in °C/mm Hg, n²⁰D, 14²⁰), C₄H₉, C₆H₅, C₁₂H₁₈OS, 97.20, 141.0 - 142.0/2, 1.5313, 1.0118; C2H5, 0-013C6H4 (Xa), C11H160S, 97.19, 139.0/7, 1.5394, 1.0352; C₂, 3-CH₃-5-iso-C₃H₇C₆H₃, C₁₂H₂₂OS, 98.61, 166.0 - 167.0/12, 1.5270, 1.0027. A weak stream of dry 80, was bubbled for 1 - 2 min into a cooled ampouls containing 0.1 mole I and 0.1 mole C2H5SH; this was allowed to stand for 3 - 4 hre and then neutralised with dry H2CO3, giving IX (R = C2H5, Ar = C6H5) (IXa), C10H140S, yield 68.5%, b.p. 62 - 63.00C/3 mm Hg, n²⁰D 1,5365, d₂20 1.0436. A mixture of 0.2487 g IXa and an excess of 20% solution of HgCl2 in alcohol was allowed to stand for 2 - 3 hre, methyl orange was added and 97.52% HCl was found by titration with 0.1 N NaOH. A stream of SO2 was bubbled for 0.5 - 1 min into a mixture of 0.1 mole II and 0.15 mole C.H.SH, after 20 - 25 min IX was separated by distillation (R-C2H5) Ar = $0-0H_3C_6H_4$), $C_{11}H_{16}OS$, yield 60.0%, b.p. 74 - 75°C/12 = Hg. n^{20} D 1.5250, d_4^{20} 1.0084, as well as Is (in view of traces of 0_2), yield 3.1 g. previous communication see RZhKhim, 1961, 52h101. [Abstracter's note: Complete translation.]
Gard 4/4

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1. Nachal'nik Upravleniya lechprofpomoshchi Ministerstva zdravookhraneniya BSSR (for Gain). 2. Starshiy inspektor lechprofpomoshchi Ministerstva zdravookhraneniya BSSR (for Myasnikova).

(WHITE RUSSIA MEDICINE, INDUSTRIAL)



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